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DATE: Tuesday, January 17, 2006

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<input type="checkbox"/>	L13	neuro\$6 same L10	26
<input type="checkbox"/>	L11	phosphatase? same L10	21
<input type="checkbox"/>	L10	(gene or sequence or polynucleotide or clone or recombinant) same L9	3531
		((lipid adj protein adj phophatase) or (phosphatidate adj phosphatase) or (phosphatidic	
<input type="checkbox"/>	L9	adj acid adj phosphatase) or (acid adj phosphatidyl adj phosphatase) or (phosphatic adj acid adj hydrolase)or lpp or prg)	10871
<input type="checkbox"/>	L8	treat\$5 same L7	5
<input type="checkbox"/>	L7	neuro\$5 same L6	31
<input type="checkbox"/>	L6	(gene or sequence or polynucleotide or clone or recombinant) same L5	165
		((lipid same protein same phophatase) or (phosphatidate same phosphatase) or	
<input type="checkbox"/>	L5	(phosphatidic same acid same phosphatase) or (acid same phosphatidyl same phosphatase) or (phosphatic same acid same hydrolase))	324

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# NiceZyme View of ENZYME: EC 3.1.3.4

## Official Name

**Phosphatidate phosphatase.**

## Alternative Name(s)

**Phosphatidic acid phosphatase.**

## Reaction catalysed

A 3-sn-phosphatidate + H<sub>2</sub>O <=> a 1,2-diacyl-sn-glycerol + phosphate

## Cross-references

Biochemical Pathways;  
map number(s)

F6 ; D8

BRENDA

3.1.3.4

PUMA2

3.1.3.4

PRIAM enzyme-specific  
profiles

3.1.3.4

Kyoto University LIGAND  
chemical database

3.1.3.4

IUBMB Enzyme  
Nomenclature

3.1.3.4

IntEnz

3.1.3.4

MEDLINE

Find literature relating to 3.1.3.4

MetaCyc

3.1.3.4

UniProtKB/Swiss-Prot

Q05521, DPP1\_YEAST; 088956, LPP1\_CAVPO; 014494, LPP1\_HUMAN;  
Q61469, LPP1\_MOUSE; P60588, LPP1\_PIG; 008564, LPP1\_RAT;  
Q04396, LPP1\_YEAST; 043688, LPP2\_HUMAN; Q9DAX2, LPP2\_MOUSE;  
Q8K593, LPP2\_RAT; 014495, LPP3\_HUMAN; Q99JY8, LPP3\_MOUSE;  
P97544, LPP3\_RAT; Q9V576, WUN\_DROME;

[View entry in original ENZYME format](#)

All UniProtKB/Swiss-Prot entries referenced in this entry, with possibility to download in different formats, align etc.

All ENZYME / UniProtKB/Swiss-Prot entries corresponding to 3.1.3.-

All ENZYME / UniProtKB/Swiss-Prot entries corresponding to 3.1.-

All ENZYME / UniProtKB/Swiss-Prot entries corresponding to 3.-

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ENZYME: 3.1.3.4

Help

<b>Entry</b>	EC 3.1.3.4	Enzyme
<b>Name</b>	phosphatidate phosphatase; phosphatic acid phosphatase; acid phosphatidyl phosphatase; phosphatic acid phosphohydrolase	
<b>Class</b>	Hydrolases Acting on ester bonds Phosphoric monoester hydrolases	
<b>Sysname</b>	3-sn-phosphatidate phosphohydrolase	
<b>Reaction</b>	A 3-sn-phosphatidate + H2O = a 1,2-diacyl-sn-glycerol + phosphate [RN:R02239 R06520 R06521 R06522]	
<b>Substrate</b>	3-sn-phosphatidate [CPD:C00416] H2O [CPD:C00001]	
<b>Product</b>	1,2-diacyl-sn-glycerol [CPD:C00641] phosphate [CPD:C00009]	
<b>Pathway</b>	PATH: map00561 Glycerolipid metabolism PATH: map00564 Glycerophospholipid metabolism PATH: map00600 Glycosphingolipid metabolism	
<b>Ortholog</b>	KO: K01080 phosphatidate phosphatase	
<b>Genes</b>	HSA: 8611(PPAP2A) 8612(PPAP2C) 8613(PPAP2B) MMU: 19012(Ppap2a) 50784(Ppap2c) 67916(Ppap2b) RNO: 192270(Ppap2b) 246115(Ppap2c) 64369(Ppap2a) DME: CG8804-PA(CG8804) CG8804-PB(CG8804) TBR: Tb10.389.0020 Tb10.61.2970 TCR: 511277.370	
<b>Reference</b>	1 Smith, S.W., Weiss, S.B. and Kennedy, E.P. The enzymatic dephosphorylation of phosphatidic acids. J. Biol. Chem. 228 (1957) 915-922.	
<b>Other DBs</b>	IUBMB Enzyme Nomenclature: 3.1.3.4 ExPASy - ENZYME nomenclature database: 3.1.3.4 ERGO genome analysis and discovery system: 3.1.3.4 BRENDA, the Enzyme Database: 3.1.3.4 CAS: 9025-77-8	
<b>LinkDB</b>	All DBs	

=&gt; Original format

DBGET integrated database retrieval system, GenomeNet